US-10 Business Route Buttles Street Road Diet Traffic Data Update

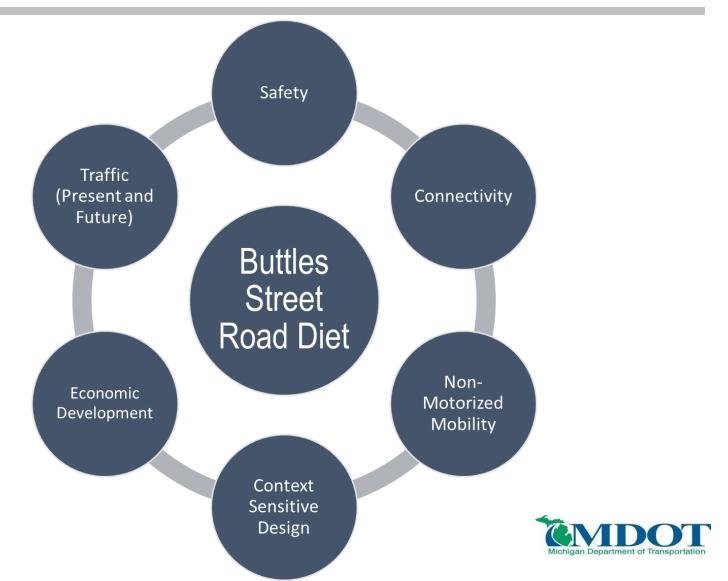




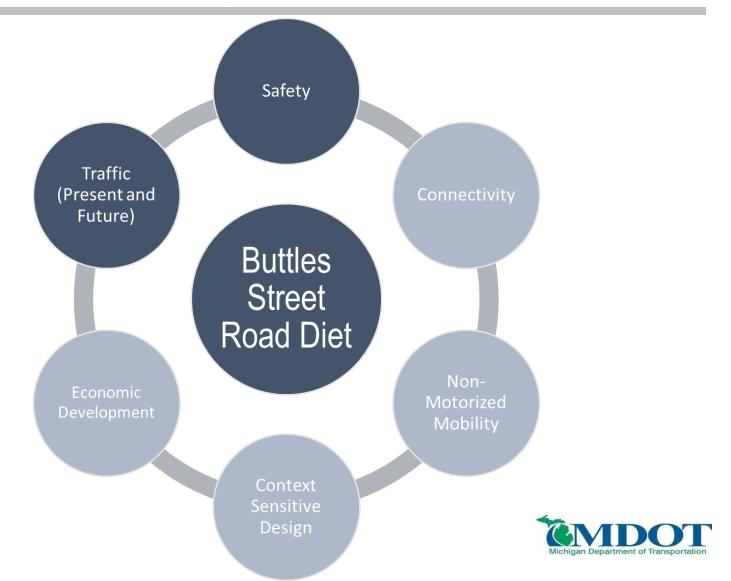
- In 2015 MDOT commissioned a corridor study of US-10 BR through City of Midland
 - Washington Street to US-10 BR/US-10 Interchange
- Partnership with the City
- Corridor Study presented to City Council March 27, 2017
 - Preferred Alternative Road Diet (reduce to two travel lanes)



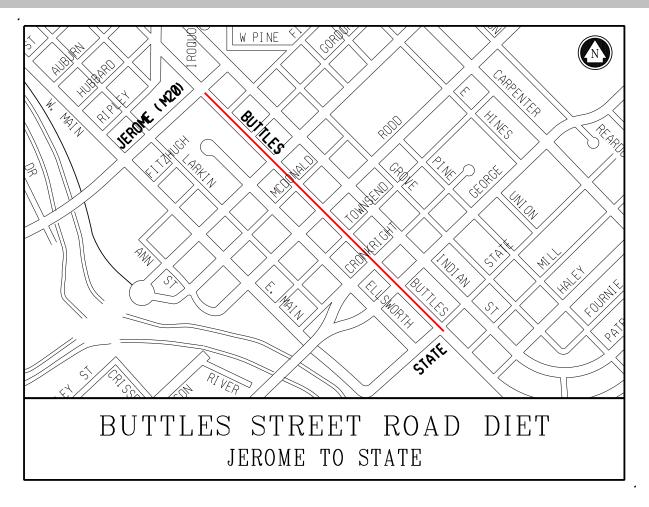
















- Traffic data previously collected and reported includes two short term assessments of a lane reduction on Buttles Street
 - August 28-30, 2017
 - November 6-13, 2017
 - Data collected included volume and speed during peak travel times
 - Reviewed for backup and delay at signalized intersections





- Traffic data from the short term assessments presented to City Council on December 18, 2017
- A long term trial period was implemented to assess the lane reduction on Buttles Street
 - Assessment includes traffic data collection
 - Volume, speeds, delay and crashes





Long term trial period of road diet -

- May 14, 2018 traffic bollards and pavement markings were installed on Buttles Street, reducing the three lane road section to two lanes
- Previous update on traffic data was presented October 29, 2018
- Additional traffic data has been collected since that time





Long term trial period of road diet -

 Representatives from the Michigan Department of Transportation (MDOT) are here to present an update to the traffic data collected since the October 2018 report on traffic



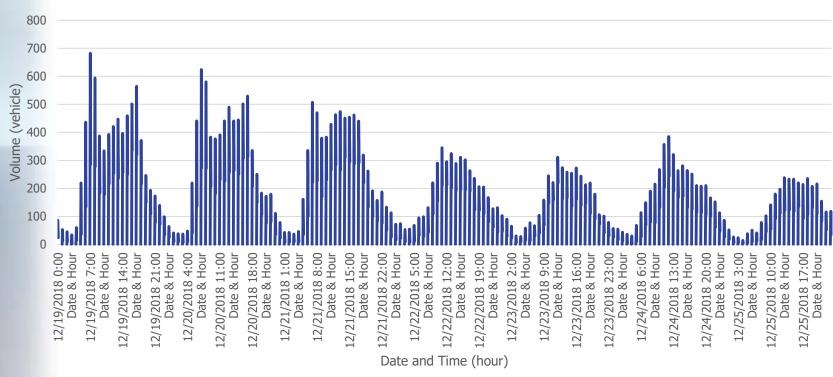


- Traffic data collected
 - Volume
 - Speed
 - Delay Study
 - Crash information





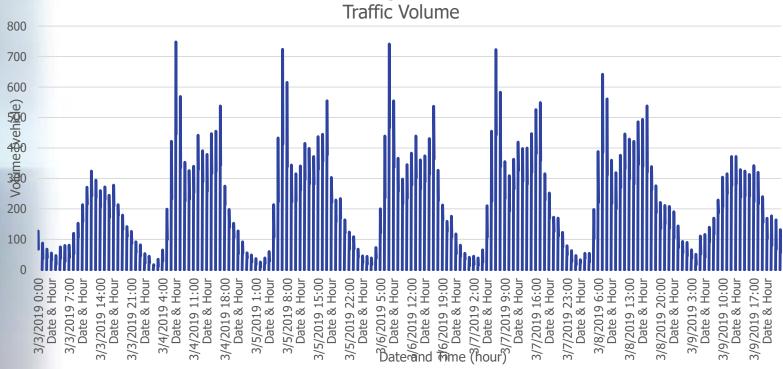
Buttles Street at State Street
December 19 through December 25, 2018
Traffic Volume







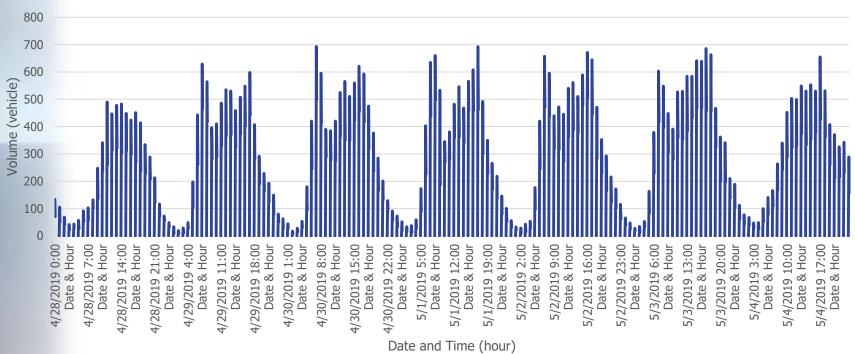
Buttles Street at State Street March 3 through March 9, 2019 Traffic Volume

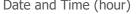






Buttles Street at Fitzhugh Street April 28 through May 4, 2019 **Traffic Volume**

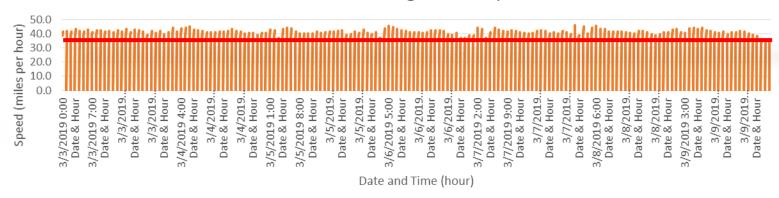




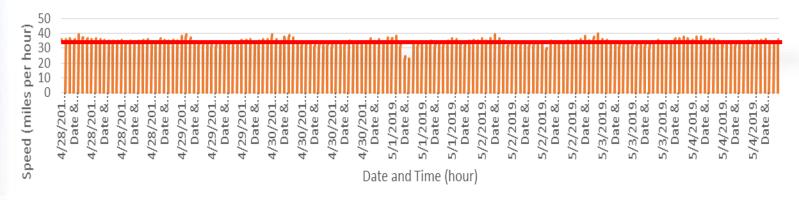




Buttles at State Average Vehicle Speed



Average Vehicle Speed



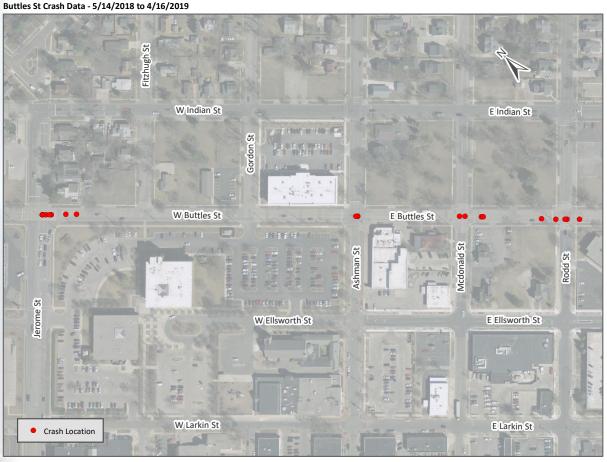




- Delay Study
 - Vehicle delay data was collected May 7 and May 8, 2019
 - Delay study identifies the number of vehicles that are delayed at a signalized intersection for more than one cycle of the signal
 - During the May 2019 delay study, no vehicle delays were identified
 - This is consistent with the September 2018 and November 2017 delay studies



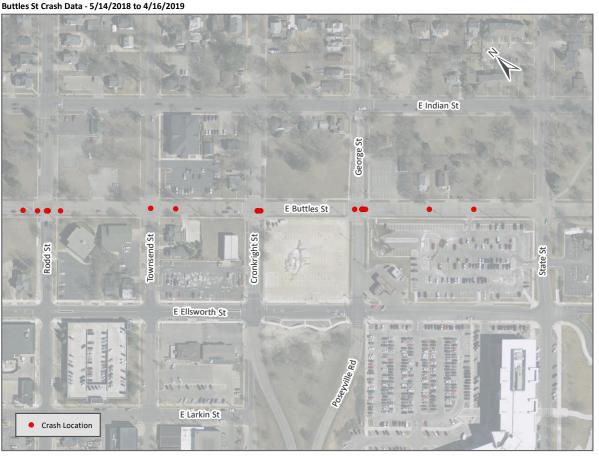




Crash locations May 2018 May 2019







Crash locations May 2018 May 2019





Crash by Type

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	400,	Anc.	Ste Straight	186 7un	BiQCG Fig.	Misc. As	Vehicle Misc Sele	Vehicle	Porking Rear	Pear Fileway	Redr.	Side Stalght	Swipe Same	/eto/
May 2009 to May 2010		11	3								1	6	21	
May 2010 to May 2011	1	10	3								1	6	21	
May 2011 to May 2012		13			2	2				1	2	8	28	
May 2012 to May 2013	1	15	2								4	4	26	
May 2013 to May 2014		11	2			1		1		1	3	7	26	
May 2014 to May 2015		11	1			2					1	2	17	
May 2015 to May 2016		9				2		1			3	9	24	
May 2016 to May 2017		7	1			2					2	6	18	
May 2017 to May 2018		10		1		5					3	7	26	
May 2018 to May 2019		17				3	2		1	1	5	8	37	





Crash by Type

V	JI asii by Ty	he												
		Angl	Angel	Ang.	Ste Turn B:	Like John	Misc. Na.	Vehicle Misc. C.	Venice Venice P.	Real	Rear Engl	Redun Redun	puz is pis	Sing Sing Sing Sing Sing Sing Sing Sing
	May 2009 to May 2010		52%	14%								5%	29%	
	May 2010 to May 2011	5%	48%	14%								5%	29%	
	May 2011 to May 2012		46%			7%	7%				4%	7%	29%	
	May 2012 to May 2013	4%	58%	8%								15%	15%	
	May 2013 to May 2014		42%	8%			4%		4%		4%	12%	27%	
	May 2014 to May 2015		65%	6%			12%					6%	12%	
	May 2015 to May 2016		38%				8%		4%			13%	38%	
	May 2016 to May 2017		39%	6%			11%					11%	33%	
	May 2017 to May 2018		38%		4%		19%					12%	27%	
	May 2018 to May 2019		46%				8%	5%		3%	3%	14%	22%	





Crash by Driver Violation

	19.5°	New 55 or 10	07,000,000,000,000,000,000,000,000,000,	Vew Storms	6 5600 ACO	Impropried	15c lane 15c lane	Topo Inu	Spending	100 TOS	"I Realight
May 2009 to May 2010		8	1		3	5	1	2		7	
May 2010 to May 2011		7		1	3	5	3			7	
May 2011 to May 2012	1	11		3	3	4	2		1	13	
May 2012 to May 2013		10	1	4	7	1	1			11	
May 2013 to May 2014		6		4	9	3	3			7	
May 2014 to May 2015		9		2	2	1	2			10	
May 2015 to May 2016		5		4	5	3	4			8	
May 2016 to May 2017		5		3	4	2	3			6	
May 2017 to May 2018		9		1	3	4	6	1	1	10	
May 2018 to May 2019		12		6	6	1	2	1		17	





Long Term Trial Period:

- Traffic data including volume, speed and delay information collected since the last update are consistent with previous traffic data
- Anticipate collecting additional traffic data after the M-20 bridge construction is complete
- Angle-Straight crashes have increased, Working with MPD to specifically look at red light running





Long Term Trial Period:

- The next assessment of the traffic data will be presented in spring 2020
- Resolution before you receives and files the Traffic Data Update for the lane reduction on Buttles Street





End

